

Solar 9.5g PTT

Microwave Telemetry, Inc.
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USA



SENSORS

The Solar 9.5g PTT includes sensors to measure temperature, battery voltage, and activity with each parameter relayed to Argos on 3 out of every 4 transmissions. The fourth transmission relays the status of the duty cycle.

GENERAL ELECTRICAL SPECIFICATIONS

Operating frequency: 401.650 MHz \pm 36 kHz
Power output: 200 mW output is standard^{††}
Output impedance: 50 ohms
Modulation tri-phase PSK: \pm 1.1 Rad \pm 0.1 Rad
Quiescent current: <3 μ A
Spurious emissions: -45 dB
Transmission interval: 60 seconds^{†††}
Supply voltage: 3.6–4 volts
Operating temperature range: -5–45°C

* Harnessing loops and neoprene pad not included in these dimensions.

** Neoprene pad not included.

*** This option will increase the weight of the transmitter.

PHYSICAL SPECIFICATIONS

Dimensions*: Length 1.53 in (3.89 cm) x Width 0.70 in (1.78 cm) x Height 0.51 in (1.30 cm)

Weight**: ~9.5 grams

Antenna: Hard nylon-coated flexible stranded marine-grade stainless steel, 8.50 in (21.59 cm) long, protruding from the back edge of the transmitter 45° to the bottom face

FEATURES

- Solar-powered, rechargeable battery
- Microprocessor-controlled power management
- Programmable duty cycle
- Multi-season duty cycle timer available
- Optional XT™ programming
- Optional Mortality GT™
- Optional potting for pressure resistance^{***}
- Backpack (with standard neoprene cushioning pad), suture tubes^{***}, glue-on, and collar[†] attachment options available
- Alternative color and matte finish options available
- Operating lifetime up to 3 years

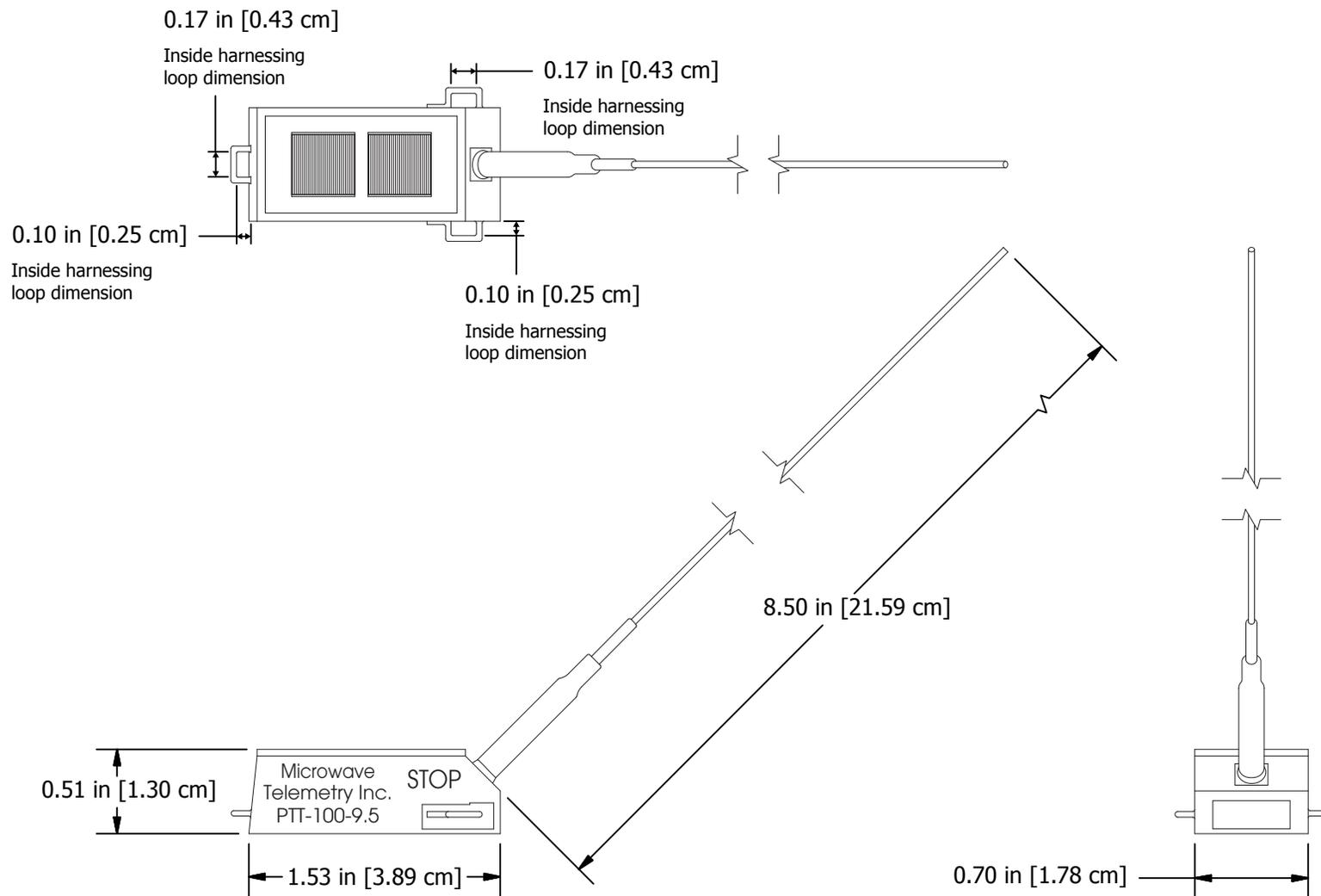
CONSTRUCTION

The housing is constructed from a lightweight glass-reinforced epoxy composite material with a contiguous interior metal-plated coating. The unit is hermetically sealed with a metal-to-metal solder joint providing stability during changes in temperature and humidity.

[†] Intended for use on some bat species.

^{††} Adjustable between 100–500 mW.

^{†††} Can be optimized for your requirements at time of manufacture.



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